



AFRL-RX-TY-TM-2010-0024

**“BUMPER BUDDY” HUMVEE TRANSPORTER
DATA PACKAGE
INSTALLATION GUIDE AND DRAWINGS**

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Contract No. FA4819-09-C-0045

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13. SUPPLEMENTARY NOTES Ref AFRL/RXQ Public Affairs Case # 10-058. Document contains color images.					
14. ABSTRACT The intent of this document is to provide the reader with instructions on installation of the "Bumper Buddy" Humvee Transporter and drawings as a collective data package.					
15. SUBJECT TERMS Bumper Buddy, Humvee, ANDROS MARK VI, ramp, HHV, up armored, UA-HHV, HMMWV, robot transporter					
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Reset

BUMPER BUDDY

The Bumper Buddy robot transporter was accomplished by the Air Force Research Laboratory (AFRL) at the urgent request of Central Air Forces and Headquarters Air Combat Command for Explosives Ordnance Disposal (EOD) personnel to transport and haul robots instead of using a trailer. The bumper mount and ramp allow deployed forces to carry small robots such as the Andros Mark VI Robot on the rear of armored Humvees. The Bumper Buddy was transitioned to Operation Iraqi Freedom troops for field use.

BUMPER BUDDY

Robotic Transporter Installation Guide

For the Up-Armored HHV (Heavy Hummer Variant) Vehicle with a 2-in x 8-in Bumper



Tools required for first assembly and installation: Two 3/4-in wrenches, one 9/16-in wrench

Tools required for reinstallation: Two 3/4-in wrenches

Note: Two 3/4-in and One 9/16-in wrenches are supplied with each transporter.

NOTE: An ANDROS MARK VI with wheels was used for this guide, however, the transporter can be used for any robot under 500 lb that fits securely.

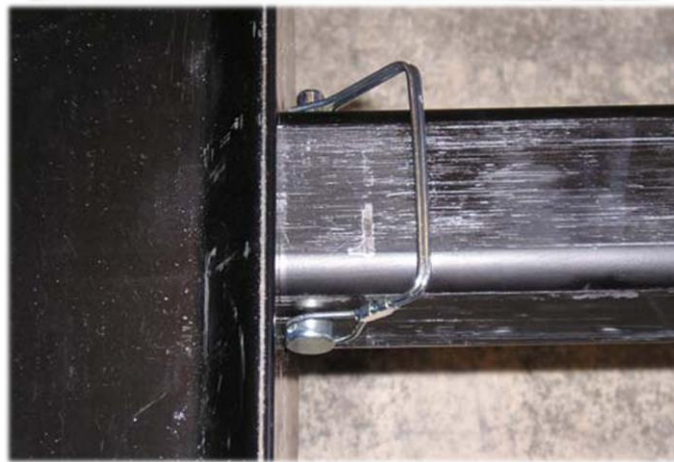
Installation



STEP 1: Bolt platform tube to bumper. Make sure the winch umbilical connector is functional.
REQUIRED: Two 3/4-in wrenches



STEP 2: Remove safety retainer pins. This will be from a total of three places.



STEP 3: Making sure the ramp is on the passenger side, slide the first platform all the way on the tube. Insert the safety retainer pin in the hole nearest the bumper. Slide the platform back so it just hits the safety retainer pin. Tighten the four bolts under the platform that secure the platform to the tube

REQUIRED: 9/16-in wrench

NOTE: The safety retainer pin is used for both location and keeping the ramp from sliding off the tube should the bolts become loose.

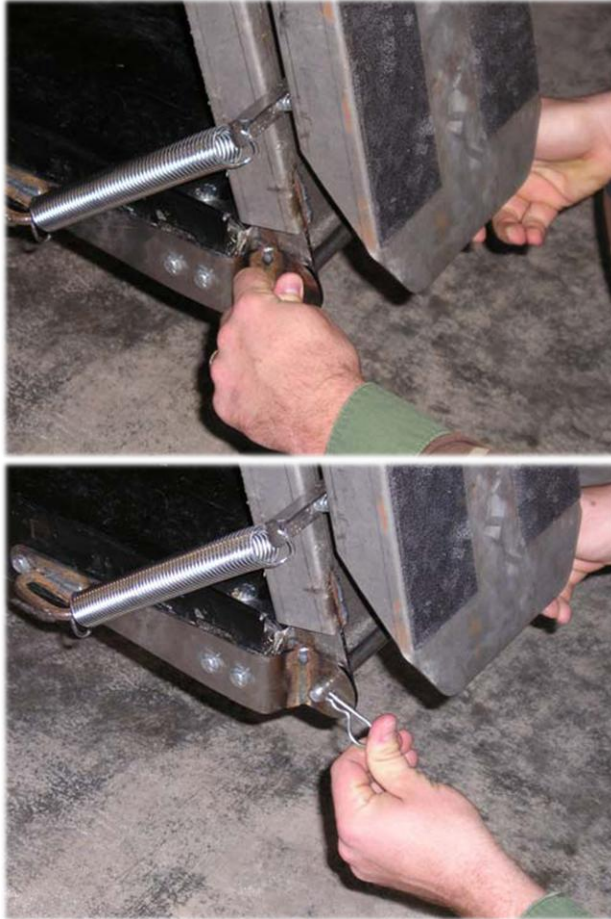


STEP 4: Slide the second platform all the way to the first platform. If you are transporting an ANDROS MARK VI with wheels, insert a safety retainer pin in the second hole from the bumper and slide the platform back so it just hits the safety retainer pin. Otherwise, adjust the spacing between the platforms for the specific vehicle. Tighten the four bolts under the platform that secure the platform to the tube.

REQUIRED: 9/16-in wrench



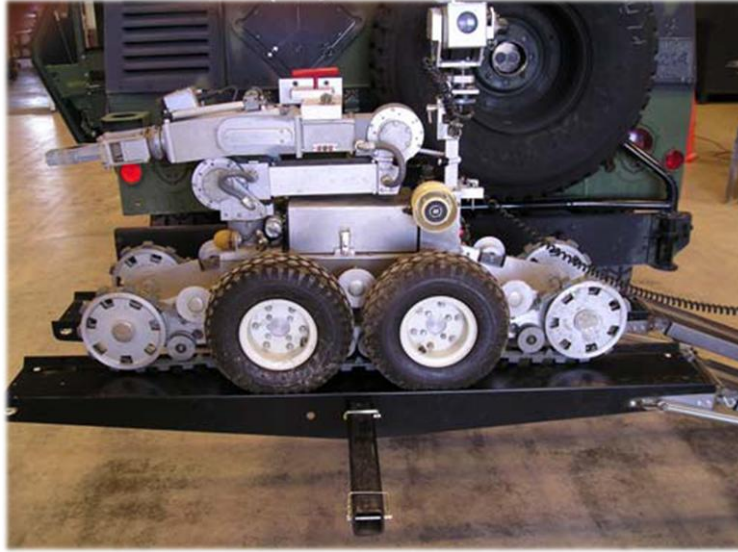
STEP 5: Insert safety retainer pin in hole at the end of the tube. This will keep the platform from sliding off if the bolts should become loose.



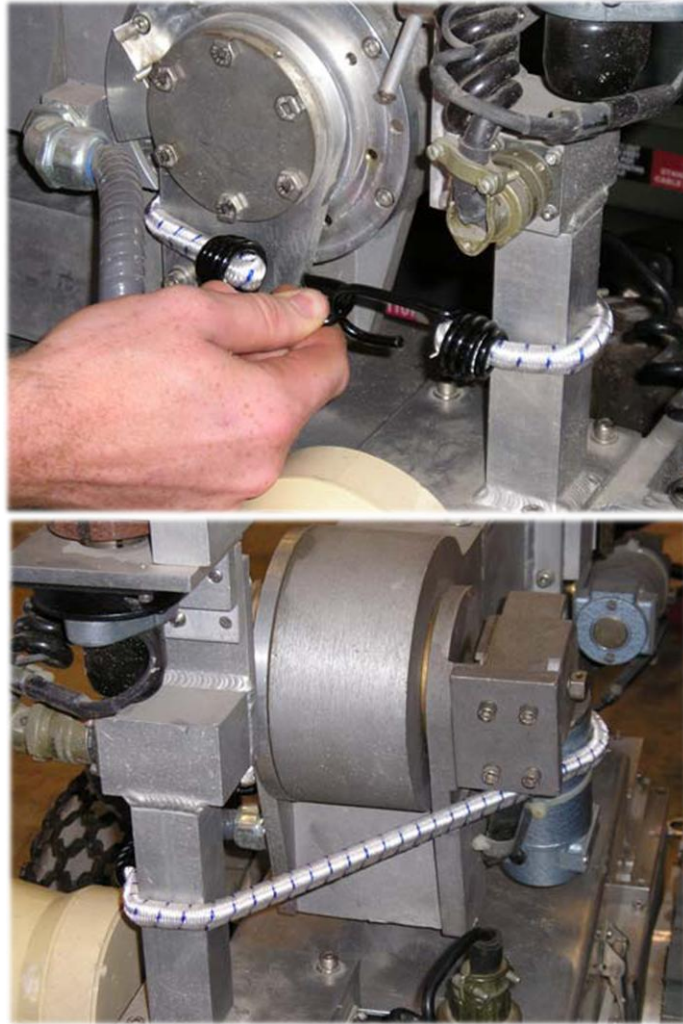
STEP 6: Remove the hinge pin from the platform and insert between the platform and ramp. Secure with a retainer clip.



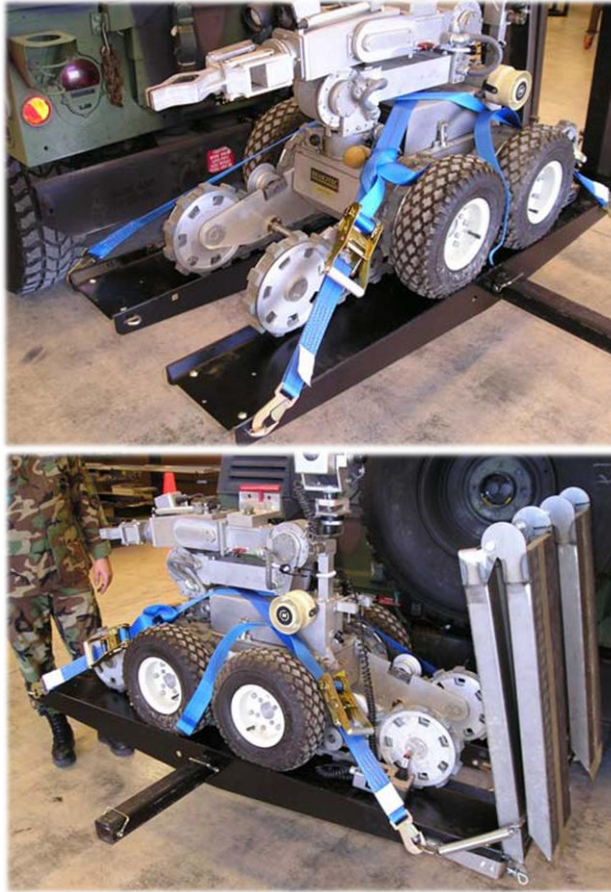
STEP 7: Lower the ramps and load the vehicle.



STEP 8: Center the MARK VI on the tube and fold the ramps to travel position.

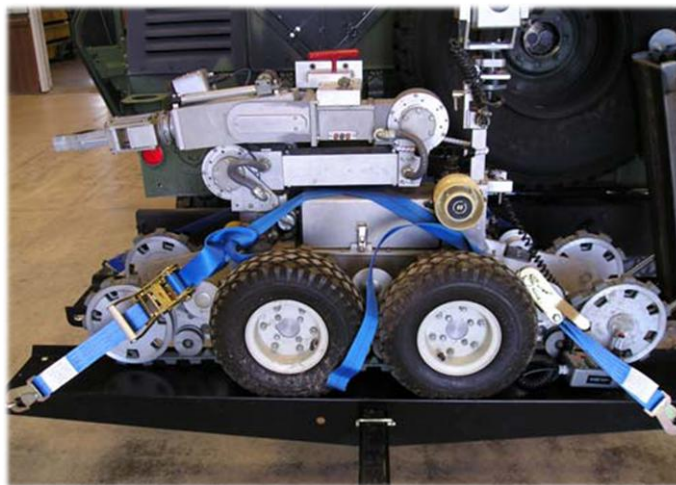


STEP 9: Secure the arm with a bungee cord. This helps reduce damage to arm when transporting.



STEP 10: Strap the robot to the platform as shown.

NOTE: Follow this method explicitly as testing indicated this is the most secure and least damaging method.



STEP 11: Make sure the straps do not go over the arm. The arm may be damaged by excessive loads.



STEP 12: Place cover over the robot and secure with bungee cords.

Removal



STEP 1: Remove the transporter by removing the tube bolts and sliding off bumper.



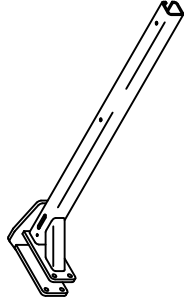
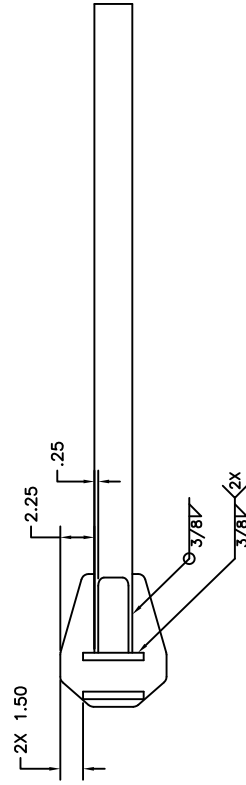
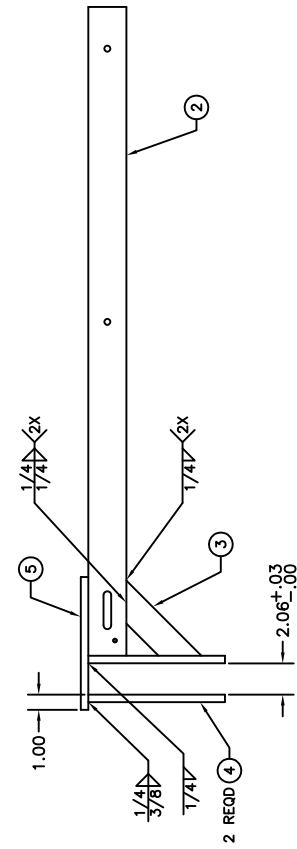
STEP 2: Reinstall tube bolts to prevent them from being lost.



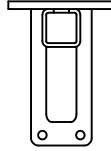
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① 030219-001 TRANSPORTER TUBE BRAKE LIGHT ASSEMBLY

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ISOMETRIC VIEW
SCALE = 1/8



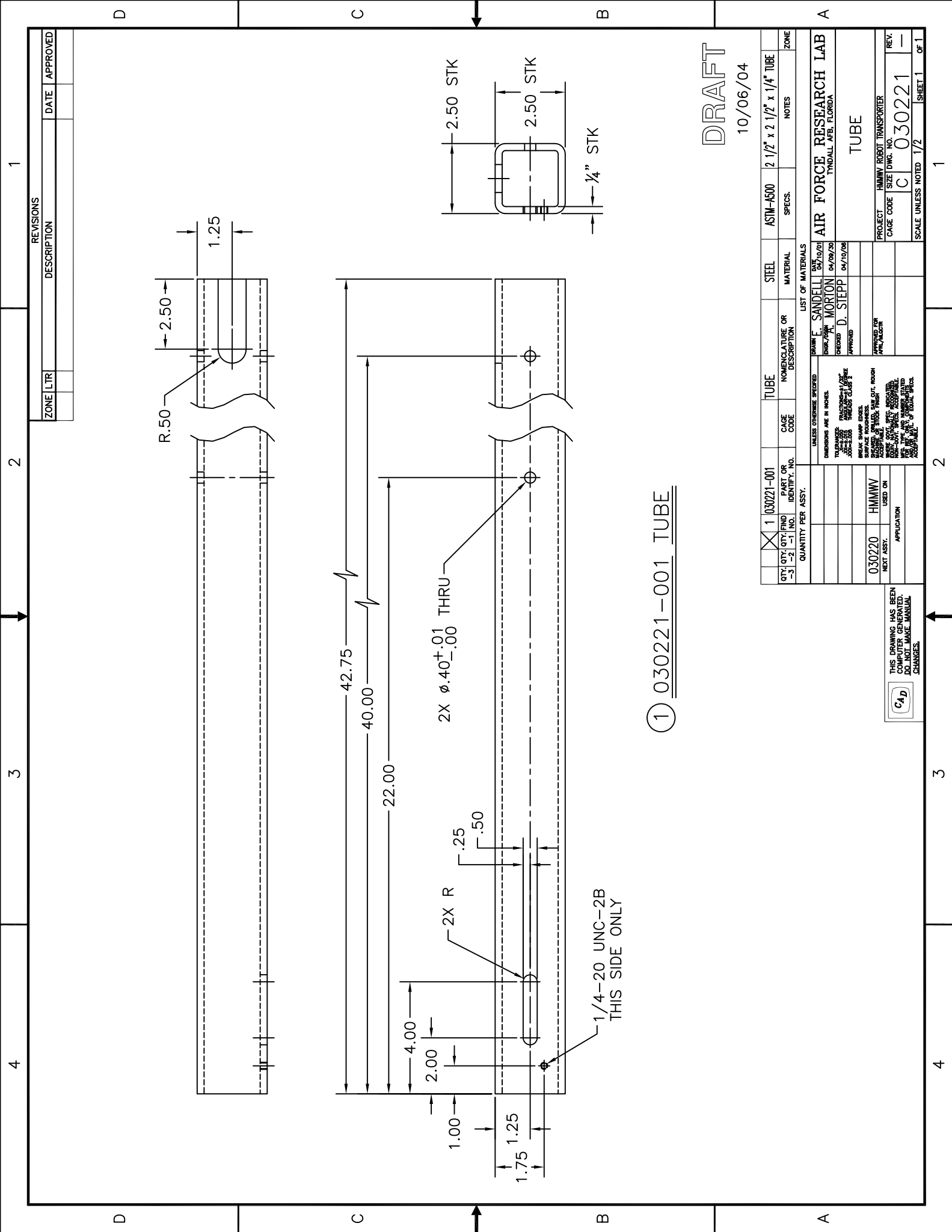
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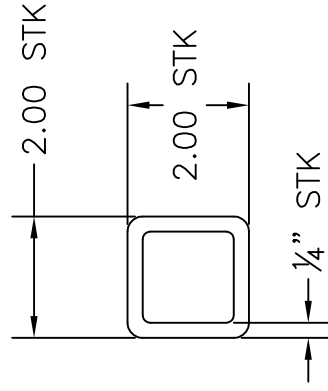
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① 030220-001 TRANSPORTER TUBE ASSEMBLY



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10/06/04

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CAD

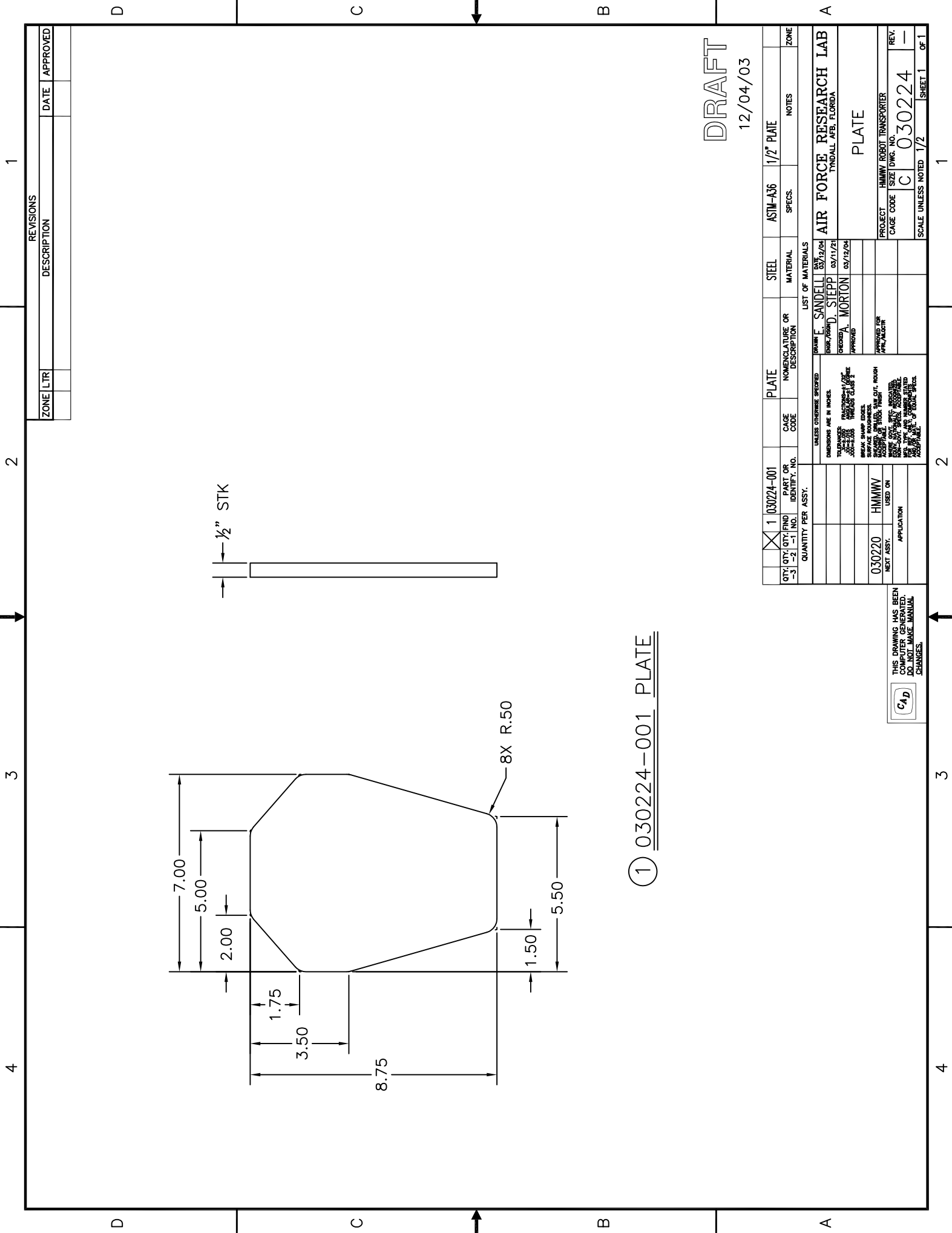
**THIS DRAWING HAS BEEN
COMPUTER GENERATED
DO NOT MAKE MANUAL
CHANGES.**



12/04/03

CAD

① 030223-001 PRESSURE PLATE



① 030224-001 PLATE

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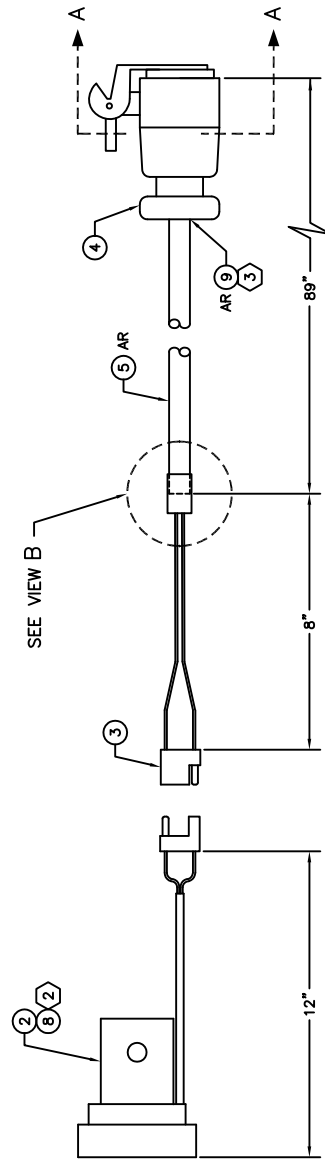
			1		030220-001				PLATE		STEEL		ASTM-A36		1/2" PLATE		ZONE		
QTY		QTY		END		PART OR		CAGE		NOMENCLATURE OR		MATERIAL		SPECS.		NOTES		ZONE	
-3		-2		-1		NO.		IDENTITY, NO.		DESCRIPTION									
UNLESS OTHERWISE SPECIFIED																			
DIMENSIONS ARE IN INCHES.																			
TOLERANCES: FRACTIONS-1/32"																			
DECIMALS-0.015"																			
ANGLES-30° MIN. UNLESS OTHERWISE SPECIFIED																			
SURFACE FINISH: 160 RMS UNLESS OTHERWISE SPECIFIED																			
BREAK SHARP EDGES																			
ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED																			
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NOTES:

- ### 1 CABLE PREPARATION:

CUT 50 CABLE (F/N 5), TO 88" AND STRIP OUTER JACKET BACK 2 1/4". CUT OFF UNUSED WIRE EVEN WITH JACKET. SOLDER SPLICE REMAINING LEADS AND COVER EACH WITH 2" LONG, 1/4" HEAT SHRINK (F/N 7). USE 4" LONG, 3/8" HEAT SHRINK (F/N 6), TO COVER CABLE END AND SPLICE.

- 2 REPLACE EXISTING 12 VOLT BULB WITH 28 VOLT BULB (F/N 8).
- 3 FILL IN VOID AROUND CABLE (F/N 5), WITH RTV (F/N 9).



The diagram shows a logic gate with eight inputs and one output. The inputs are arranged in two columns. The left column contains inputs labeled X, GN, YW, BN, X, and WE from top to bottom. The right column contains inputs labeled PK/GY and D. There are also two additional inputs at the top: REF 3 pointing to the GN input, and REF 4 pointing to the D input. The output of the gate is labeled B.

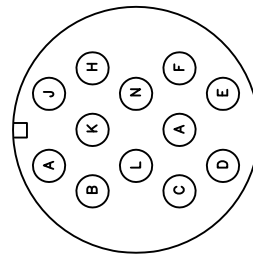
WIRING DIAGRAM

① 030225-001 STOPLIGHT CABLE ASSEMBLY

DBAFT

10/05/04

AR	9	7545681	39428	RTV, GE		MASTER-ORR	BLACK
1	8	749-707	OKCY3	LAMP, INCANDESCENT		ALLED	28 VOLT
AR	7	617-480	OKCY3	HEAT SHRINK, ADHESIVE LINED		ALLED	1/4" DIA. ESP-300, BLACK
AR	6	617-483	OKCY3	HEAT SHRINK, ADHESIVE LINED		ALLED	3/4" DIA. ESP-300, BLACK
AR	5	18626	24427	SUOW CORD		GRANNER	
1	4	5835-00-659-2841		CONNECTOR, VEHICULAR		BASE SUPPLY	NSR
1	3	37112	58961	CABLE, MOLDED		WATERX	46" WIRE, DIA. FEMALE END
1	2	OK-07	06853	LAMP, HITCH BRAKE		AUTODOME	
				STOPLIGHT CABLE ASSEMBLY		APR/ALUF	
				NOMENCLATURE OR DESCRIPTION		SPECS.	NOTES
				CASE CODE			
				PART OR IDENTIFYING NO.			
				REV			
				BY			
				DATE			
				APPROVED			
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VIEW B

VIEW A-A

[illegible]

CAD